ABSTRACT

Eel (*Anguilla* sp.) is a fish that has a perfect tail, dorsal and anal fins. The thing that stand out from the eel is the presence of a pair of pectoral fins that are visible on both side of the body which is located behind the head so that it is suspected that the fins are the ears. Identification of eel species is very important for the management of a resource. The A/D (%) key character comparison is one way of identifying the type of eels that can be applied. This research aimed to assess the potential and identification of eel fish species (*Anguilla* sp) in term of catches in Krueng Mane, Muara Batu, Aceh Utara. Sampling and measurement of water parameters were carried out on 13 January to 5 February 2023 using a survey method at 3 stations. The sampling frequency is once a day for 15 days. From the research results obtain 1 type of eel, namely *Anguilla bicolor* (A/D = 0.46 – 2.44 %) where the eel entered the yellow eel phase. Morphometric measurements of *Anguilla bicolor* obtained a weight between 201-235 grams and a length between 40.25-45 cm. Water quality in the Krueng Mane river is classified as good for the life of eels, namely dissolved oxygen ranging from 5.7-6.8 ppm, pH ranging from 8.2 – 8.5, temperature ranging from 29-30 ^{0}C, salinity is at 0 ppt, current velocity ranging from 0.1-0.3 m/s, water depth ranging from 2.0-3.0 meters, as well as the bottom of the waters consisting of mud, sand, gravel and stone substrates.

Keywords: catchment, eel, migration, morphometric, potential